



# Bicycle Gear Scoring Tool

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## SUMMARY

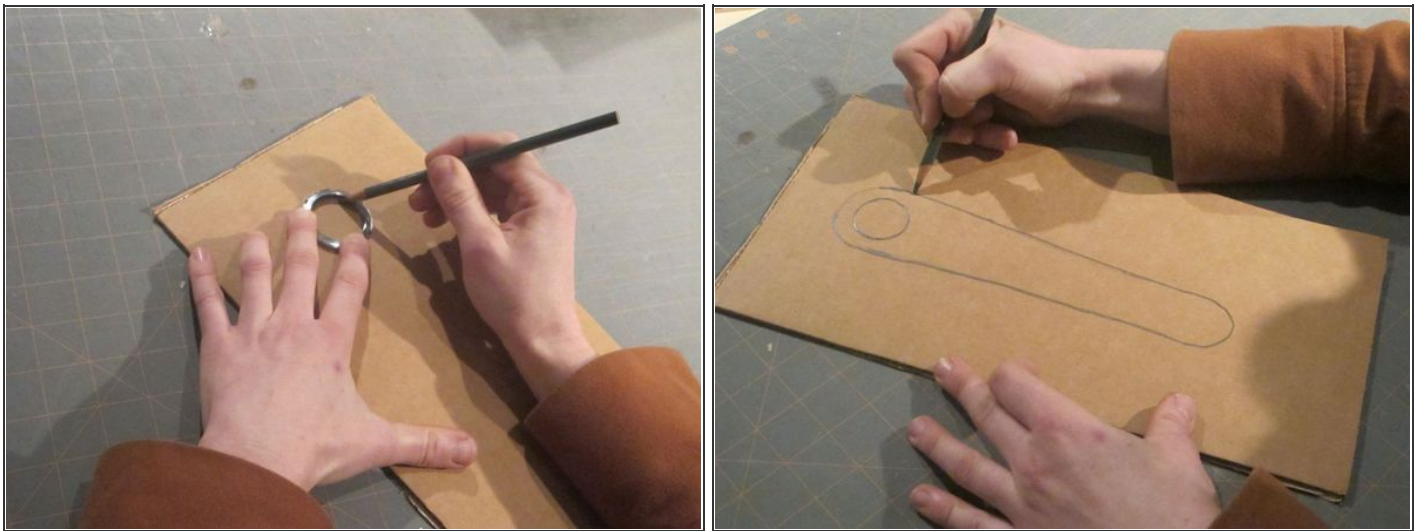
We discovered [this beautiful Japanese tool](#) for scoring cardboard, and it inspired us to make our own version using a bicycle gear.

### Step 1 — Bicycle Gear Scoring Tool



- To make your very own bicycle gear scoring tool, you need to scavenge the following items:
  - one-speed BMX freewheel
  - a steel, adjustable bottom bracket (or bb) cup, 1.37 x 24 threads per inch
  - lock ring
- You can find most of these things new at a good bike shop, but these parts are often thrown out and it is worth looking for used ones.

## Step 2



- To make a handle for your tool, start by tracing the inside of the lock ring onto a piece of cardboard.
- Now draw a handle shape to your liking and cut it out.

## Step 3



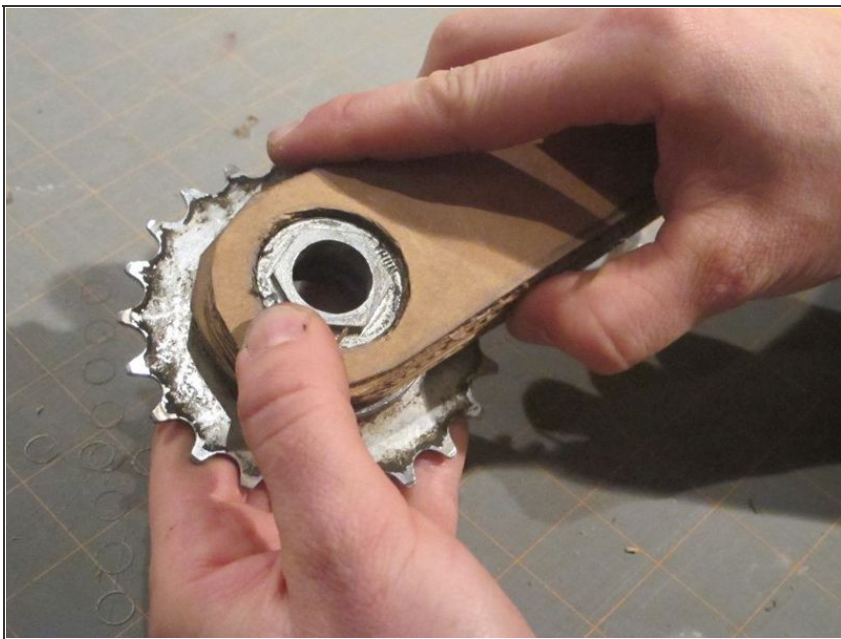
- Trace your original handle about five or six times and cut these pieces out.
- Stack the pieces and glue them together, alternating the direction of the corrugation (this will give it a bit more strength).

## Step 4



- Screw the b.b. cup into the freewheel.

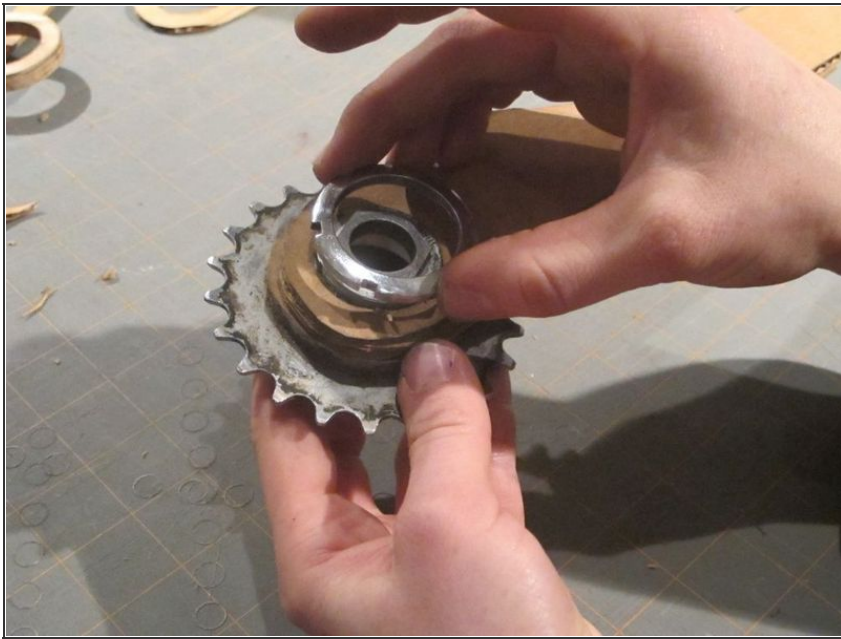
## Step 5



- Push the b.b. cup through the hole in your cardboard handle.

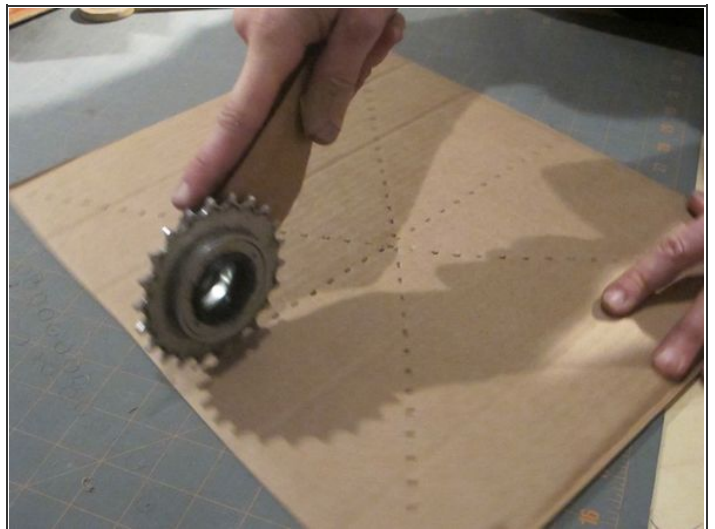
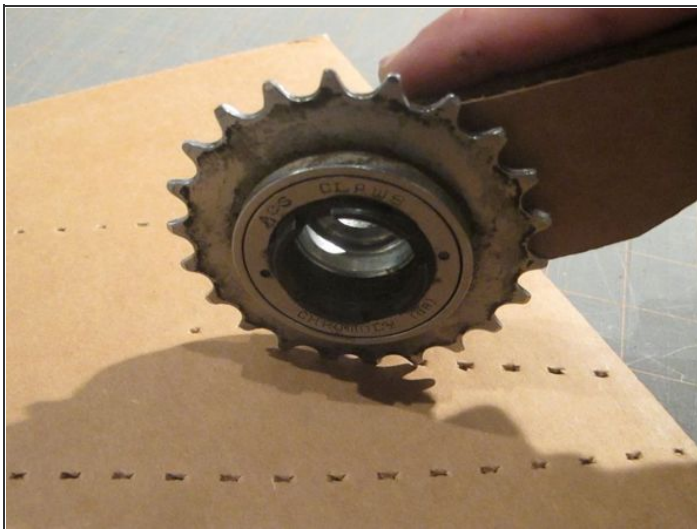


## Step 6



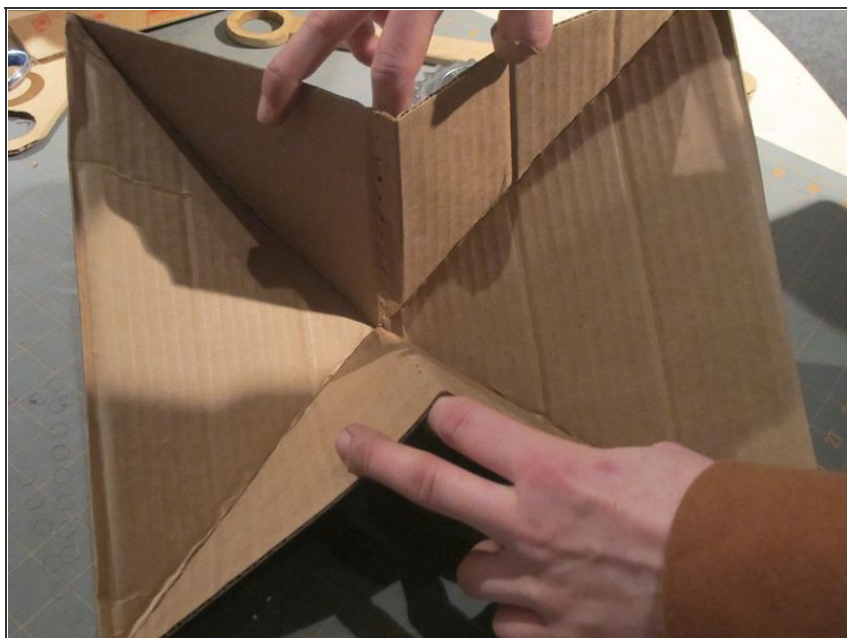
- Screw the lock ring onto the b.b. cup.

## Step 7



- Grab a piece of cardboard and try out your new tool!

## Step 8



- Cardboard origami!

## Step 9



- You can make a wood handle if you like, but you get bonus points for using cardboard.

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